

PRODUCT CATALOGUE 2022

• INDUSTRIAL CABINETS • LOW-VOLTAGE RACK SYSTEM ENCLOSURES • FIBER OPTIC DISTRIBUTION FRAMES • • POWER DISTRIBUTION BOXES •



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About MANTAR Company



MANTAR is a family company from Poland. For two generations we have been specializing in the production of unbreakable and corrosion-resistant specialized cabinets that protect active and passive devices installed in ICT networks.

Since 1993, we design and manufacture metal cabinets for the cable television, telecommunications and computer networks. We work with companies in the production of devices from various industries for which we make metal enclosures, e.g. automating parking lots, alarm systems and controlling street lights. We focus on individual solutions that meet the specific needs of our customers.

Our own production plant with a modern machine park and a dedicated IT system supporting company management enables us to produce short series or even individual enclosures. In our design office, we develop cabinets tailored to the specific recipient, easy to assemble and use. Innovative ideas and solutions are also develop here which are patent-pending and have been revolutionized the market.

We use modern technologies in our products, including sheet with Magnelis® coating, joining sheets by clinching and many others.

We base our knowledge on many years of experience which is why we perfectly understand customers needs.

Over the past 28 years, our cabinets have become security synonymous and ease of use in the industry, and MANTAR is a leading manufacturer of fiber optic cabinets on the market.



Glossary

The cabinet symbol consists of large printed letters denoting the type of the cabinet:

DR Inspection door

M cabinet patented by the MANTAR company with a construction resistant to burglary and devastation intended for installation inside buildings

MZ M cabinet designed for outdoor installation

PSN Fiber Optic wall-mounted switchboard for indoor use

PS Fiber Optic Switch designed for mounting on rack mounts

RSZ Fiber Optic outdoor switchgear

SM Mast Cabinet designed for mounting on a mast, pole or wall

SP Armored cabinet extremely resistant to burglary and internal devastation

SRS Indoor Fiber Optic Distribution Cabinet

SZK Outdoor Cabinet mounted on the SK1 telecomunication well

TPR Simple internal wall cabinets

The symbol indicating the type of cabinet is followed by a series of digits indicating the external dimensions in centimeters: height / width / depth.

Dimensions are rounded to full centimeters.

The next large printed letters indicate items of equipment:

144J Cabinet equipped with 144J commutation field, e.g. 72DX, 144SX

DX Holes for mounting SC DX adapters

L Handles under shelf PS1 plus shelf PS1 (for MZ or M)

PK Cabinet equipped with commutation field

PG Cabinet equipped with electric chokes, e.g. 13.5

R Cabinet equipped with a 3 point closure as in the SZK

ST Locked by padlock

SX Holes for mounting SC SX adapters

Wt Cabinet with ventilation

WZM Cabinet closed with a safety lock reinforced door with angles with a metal cable supply

Z Metal spare cable

Product available on request and available up to 3 weeks

In Rack-mounted Fiber-Optic switchgear dimensions are given in follow rule:

height 1...4U (U = 44,45mm)

wide 10" (10" = 255mm) or 19" (19" = 482mm)

then the number of holes for adapters and their type.

On the next places the mounting method:

nz with lock

St fixed without the possibility of ejecting

W bp it is pulled out without guides

W np it is pulled out with guides

v1,2,3 1,2,3...n version.



Our technology

Outdoors cabinets are made of DX51D + ZM200 zinc-aluminum-magnesium coated steel sheet known under the trade name Magnelis® of the company Accor Mittal.

Indoor cabinets are made of DC01 sheet metal with a thickness of 1mm to 2mm.

On request We can make cabinets made of aluminum sheet or stainless steel.

Coated sheets are joined by soldering with CuSi3 wire or clinching, which protects against corrosion at the joints.

We provide 5 years warranty for corrosion protection.

The lock is secured with 4-latch cylinder locks, for external cabinets hermetic locks, for cabinets with doors over 800x400 bolt-lever lock with hinged handle, three-point. Locks designed for a specific network have dedicated keys

Outdoors cabinets have cast polyurethane foam gasket <u>which ensures protection against dust</u> and water at IP65 level.

As standard, all cabinets are powder painted with polyester paint (100%) <u>resistant to UV rays</u> in RAL 7035 (light gray, thick structure)

On request, we provide modifications of cabinets, tailored to the individual needs of customers.



Applied solutions #1







clinching

aluminum riveting

PEM







magnelis welding

aluminium welding

welded stud







pilot holder

cable management bridges

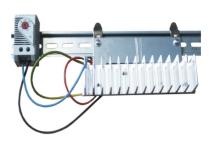
ventilation cover with filter mat



Applied solutions #2







extendable rack

LED lamp for SZK cabinets

heating set







safe lock

holes to knock out

cast polyurethane gasket









strip brush

printing on metal

ground



Applied solutions #3





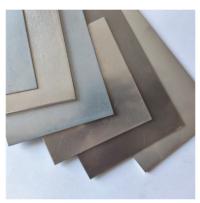


ventilation kit

ventilation holes

cabinet with thermal insulation







RAL colours

various types of metal sheet

door with glass







laser cutting

rivet nut

metal cable organizer



New products

Our own design office allows us to quickly respond to changing market needs and flexibly adjust our offer to them. We create innovative projects and include them to our permanent offer and provide innovative individual solutions, tailored to the needs of our clients. Competent, qualified team helps to find satisfactory solutions that meet specific requirements and standards.

Achieving the highest quality of products and services is our priority. W present the result of our work in latest version of the catalog. Find out our new products familiar and tested models in a constantly improved version.



Standing indoor cabinet

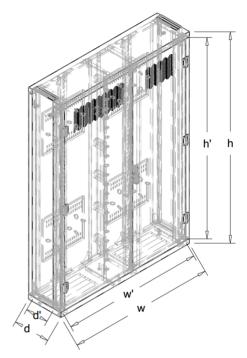
DESCRIPTION:

Standing telecommunications cabinet.

- -Material: steel sheet 1mm thick,
- -Perforated door, closed with a 3-point bolt lock with a padlock bolt, swing handle,
- -No back wall,
- -The interior of the cabinet divided into compartment,
- -Outside compartments equipped with rack handles allow for mounting quides.
- -Cabinet equipped with organizers and handles for cable management.

The cabinet is made for individual order.

- -Possibility of making in other dimensions.
- -Possibility to modify the interior.



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SWS 42U 19" 140x35*	2004	1400	350	1869	1286	204





SWS 42U 19" 140x35



"SZK" Cabinets with an additional module

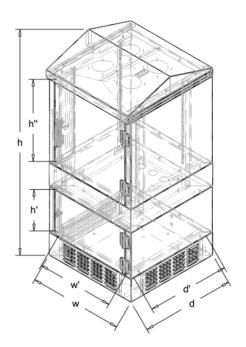
DESCRIPTION:

Cabinets for assembly on SK1 channel sump.

- -Made of sheet metal with Magnelis coating 1.5mm thick, plinth made of sheet metal with a Magnelis coating 2 mm thick, 150 mm high, ventilation holes from three sides, covered with a filter mat,
- -IP54 protection and mechanical resistance IK10 ratings,
- -Upper part, locked with a 3-point bolt lock with a padlock bolt, swing handle,
- -Lower part, locked with a hermetick lock,
- -2 pairs of 19" rack adjustable distance between the front and rear pair from 260 mm to 430 mm,
- -Lower module 6U dedicated for cable storage or accumulator.

Additional equipment:

- -Heating set with thermostat,
- -Heating set consisting of a CSL028 250W semiconductor blower controlled by an electronic hygrotherm ETF 012,
- -A set for ventilation of cabinet with a thermostat,
- -Floor plate with 3 holes Ø50 for self-breaking,
- -19" 1U 340 mm shelf,
- -PS 19" 1U SC SX / DX pull-out,
- -PS 19" 2U SC DX pull-out,
- -3U voltage distribution panel.



Symbol	Externa	al dimmension	ıs (mm)	Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SZK 18U 19" (12U+6U)*	1312	610	633	532+268	503	569





SZK 18U 19" (12U+6U)



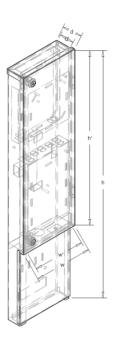
Outdoor Fiber Optic Distribution Frame - 12J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body made of sheet metal with Magnelis coating 1mm thick,
- -IP65 category and mechanical resistance IK10,
- -In the upper part of the cabinet there is a separate space for supplying the source cable, together with the field for the 2J signal source and the tray of welds,
- -The upper part of the door has space for optical splitter and metal holder for storage,
- -In the bottom part of the door, a commutation field with a capacity of 12J (12 holes for SC SX adapters) with a place for a 12J splice tray,
- -Cable entry plugged with a multi-hole gland,
- -Door closed with 2 airtight cylinder locks (dedicated key code),
- -Poured polyurethane gasket on the door,
- -Removable panels allow for convenient welding at a distance from the cabinet,
- -Cabinet designed for wall mounting.

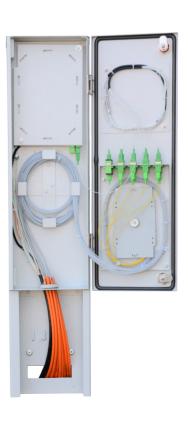
On request, cabinet can be made in Duplex version.



Symbol	Externa	al dimmension	ıs (mm)	Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
RSZ-79/18/6 12J	793	188	65	544	165	57







RSZ-79/18/6 - 12J



Mast Cabinet 19" with glass

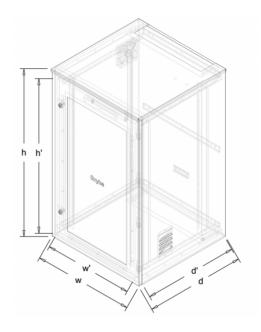
DESCRIPTION:

Hermetic cabinet designed for mounting on masts and poles with a polyurethane gasket.

- -Dedicated for high dustiness spaces,
- -Made of sheet metal with Magnelis coating with a thickness of 1,5mm,
- -Degree of protection IP53,
- -4mm thick tempered glass,
- -Closed with two hermetic locks,
- -The cabinet has additional body reinforcements in place of mounting holes,
- -Cable entry from the top and bottom of the cabinet covered with a foam seal,
- -Ventilation holes with the possibility of mounting a ventilation kit,
- -Two sets of vertical rack handles 19" 18U standard (full-depth fastening).

Additional equipment:

- -Ventilation kit,
- -Heating kit,
- -Rackmount voltage distribution panel 19" 3U,
- -Shelf 19" 1U deep 340mm(rack-mounted)
- -A set of pole holders 558mm (3 pcs),
- -PS 19" 1U 24 x SC Duplex/Simplex fixed or pull-out.



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SM-100/60/60 18U*	1002	603	606	923	535	574





SM-100/60/60 18U



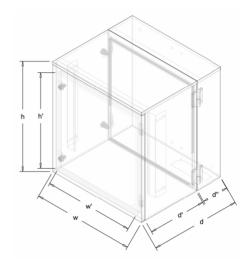
Mast Cabinet 19" two-section

DESCRIPTION:

Hermetic cabinet designed for mounting on masts and poles with a polyurethane gasket.

- -Cabinet is a mechanical cover for telecommunication equipment,
- -Perfect choice for installations that require frequent access to installed devices.
- -Closed with hermetic locks, two at the front (main door) and two on one side of the cabinet.
- -Protection IP55 and mechanical resistance IK10 ratings,
- -Cable entry plugged with a multi-hole gland,
- -Equipped with 19" 6U Racks mounted vertically.

Made for individual order.



Symbol	Externa	al dimmension	s (mm)	Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SM-60/55/50 10U*	601	560	504	521	494	148+313





SM-60/55/50 10U

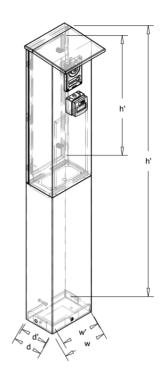


Emergency Column

DESCRIPTION:

Outdoor cabinet with a modular construction for security comunication system, made for a dedicated customer computer equippment.

- -Made of 1.0mm steel sheet with Magnelis coating,
- -Body protection IP65,
- -Possibility to make made with doors at the front and back,
- -Closed with two hermetic locks,
- -Installation of elements on the door of the column or on the mounting plate,
- -Powder coated, thick structure orange (RAL 2003),
- -Cabinet marked with the text "SOS", silk-screen printing,
- -Possibility to place on a pedestal dug in the ground,
- -The emergency communication system provides users with two-way emergency communication with the operator,
- -Used in the highway engineering, railway, and public spaces, as well as industrial safety.



Symbol	Externa	al dimmension	ıs (mm)	Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
Kolumna Alarmowa*	1852	300	250	871	238	211





Kolumna alarmowa



Standing operator console

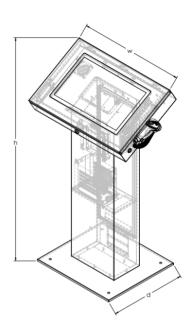
DESCRIPTION:

A standing operator console intended for computer installation, control and measurement equipment or visualization production and technological processes.

- -Material: steel sheet 1.5mm thick,
- -The operator's part and the foot closed with hermetic locks,
- -Adapted for mounting a computer, barcode reader and UPS (these elements are not included in the console equipment),
- -Used as an operator station at automated production lines, warehouses or machining centers.

To order:

- -possibility of making in other dimensions,
- -possibility to modify or make additional holes.



Symbol	external dimmensions (mm)					
Symbol	height	width	depth			
Pulpit operatorski*	1255	700	500			





Pulpit operatorski



Hanging operator console

DESCRIPTION:

A hanging operator console intended for computer installation, control and measurement equipment or visualhaization production and technological processes.

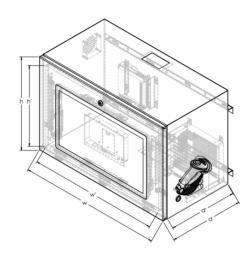
- -Material: steel sheet 1.0mm thick,
- -Closed with hermetic locks,
- -Adapted for mounting a computer, barcode reader and UPS (these elements are not included in the console equipment),
- -Used as an operator station at automated production lines, warehouses or machining centers.

Additional equipment:

-A set of pole holders (2 pcs).

To order:

- -possibility of making in other dimensions,
- -possibility to modify or make additional holes.



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
Pulpit operatorski wiszący*	460	705	372	395	640	347





Pulpit operatorski wiszący



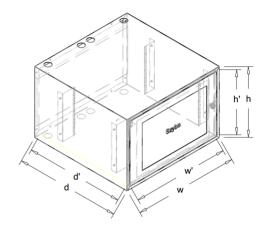
TPR Cabinet with glass

DESCRIPTION:

- -Door with 4mm thick tempered glass,
- -Closing by 4-ratchet cylinder lock,
- -With 4 holes (Ø38 / 29- plugged) from above and below for cable entry,
- -Equipped with 19" 6U rack mounted vertically,
- -Material: steel sheet thickness 1mm.

On request we can:

- -made it in other dimensions,
- -do any number and arrangement of blinded holes (ø29, ø38, ø48) or rectangular holes.



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
TPR-40/60/60	400	600	601	353	546	575





TPR-40/60/60 6U

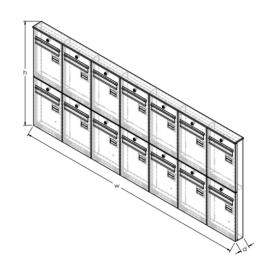


Block of mailboxes

DESCRIPTION:

Block of outdoor mailboxes.

- -Block of 14 individual mailboxes,
- -Material: aluminum sheet and steel sheet with Magnelis coating,
- -Powder coated in anthracite colour (RAL 7016) with a thick structure,
- -Individual boxes closed with hermetic locks with different key code,
- -Suitable for receiving correspondence up to the size of C4 envelope,
- -Place for numbering or name tags,
- -Construction ensures the security of correspondence,
- -Boxes suitable for outdoor use, resistant to moisture and other unfavorable factors.



Symbol	externa	al dimmension	s (mm)
Symbol	height	width	depth
Skrzynka na listy*	988	2305	98



Blok skrzynek na listy

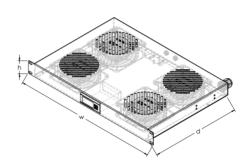


Ventilation panel (4 fans)

DESCRIPTION:

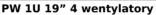
Ventilation panel with 4 fans and thermostat, for cooling devices in 19" rack cabinets.

- -Designed for installation on rack mounts in $19^{\prime\prime}$ cabinets with depth more than 400mm,
- -Made of 1.5mm thick steel sheet,
- -Equipped with 4 fans,
- -Thermostat temperature control via LCD panel,
- -Panel has a digital thermostat with an LCD display, which allows to set the temperature (fans will turn on after exceeded the temperature),
- -Possibility to order panel equipped with 2 fans for smaller cabinets.



Symbol	external dimmensions (mm)				
Symbol	height	width	depth		
PW 1U 19" 4 wentylatory	1U	19"	310		









OUTDOOR CABINETS DEDICATED FOR FTTx NETWORK

Outdoor MANTAR cabinets dedicated to the construction of FTTx networks are advanced solutions for increased resistance to adverse weather conditions, such as moisture, heavy rain, frost, etc. and mechanical damage.

MANTAR outdoor cabinets have a tightness of IP 66 rating, and mechanical resistance IK10.

Cabinet bodies are made of the most corrosion-resistant material currently available on the market - Magnelis steel sheets. The advantage of this solution is the higher resistance of non-elements to scratches and their ability to self-regenerate.

A modern system of joining metal sheets (soldering with CuSi3 wire or clinching) additionally protects against the appearance of rust at critical points.

Cabinets are designed for mounting on sewer manholes and are standard equipped with 19" rack holders and can be equipped with ventilation sets, heating sets, voltage distribution panels, fiber optic switches and shelves.

The lockers are fitted with locks certified by the Institute of Precision Mechanics.



"SZK" 19" Cabinets

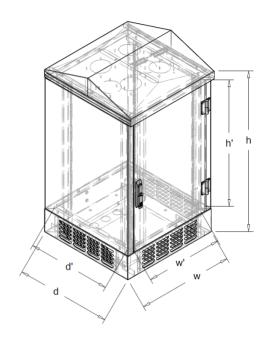
DESCRIPTION:

Cabinets for assembly on SK1 channel sump.

- -Made of sheet metal with Magnelis coating 1.5mm thick, plinth made of sheet metal with a Magnelis coating 2 mm thick, 150 mm high, ventilation holes from three sides, covered with a filter mat,
- -IP54 category and mechanical resistance IK10 ratings (confirmed by test report No. B/2020/34),
- -Lockable with a 3-point bolt lock with a padlock bolt, swing handle,
- -2 pairs of 19" rack adjustable distance between the front and rear pair from 260 mm to 430 mm, distance between the front of the body and the first pair of racks from 56mm to 174mm.

Additional equipment:

- -Heating set with thermostat,
- -Heating set consisting of a CSL028 250W semiconductor blower controlled by an electronic hygrotherm ETF 012,
- -A set for ventilation of cabinet with a thermostat,
- -Floor plate with 3 holes Ø50 for self-breaking,
- -19" 1U 340 mm shelf,
- -PS 19" 1U SC SX / DX pull-out,
- -PS 19" 2U SC DX pull-out,
- -3U voltage distribution panel.



Combal	Extern	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
SZK 12U 19"	864	610	610	531	496	428	
SZK 18U 19"	1134	610	610	799	496	429	
SZK 24U 19"*	1420	610	610	1086	496	425	
SZK 30U 19"	1686	610	610	1352	496	425	
SZK 42U 19"*	2220	610	610	1883	496	425	





SZK-18U 19"



"SZK" 19" dual access Cabinets

DESCRIPTION:

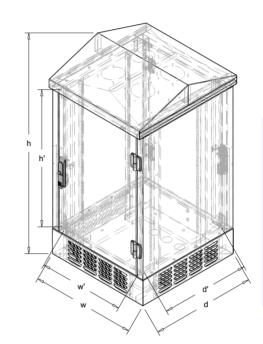
Cabinets for assembly on SK1 channel sump.

- -Made of sheet metal with Magnelis coating 1.5mm thick, plinth made of sheet metal with a Magnelis coating 2 mm thick, 150 mm high, ventilation holes from three sides, covered with a filter mat,
- -IP54 category and mechanical resistance IK10 ratings,
- -Cabinet is closed at the front and at the back, doors include a 3-point bolt lock with a pin for a padlock, a hinged handle,
- -2 pairs of 19" rack adjustable distance between the front and rear pair from 260 mm to 430 mm, distance between the front of the body and the first pair of racks from 56mm to 174mm.,

On request, cabinet can be made of Aluminum.

Additional equipment:

- -Heating set with thermostat,
- -Heating set consisting of a CSL028 250W semiconductor blower controlled by an electronic hygrotheraphy ETF 012,
- -A set for ventilation of cabinets with a thermostat,
- -Floor plate with 3 holes Ø50 for self-breaking,
- -19" 1U 340 mm shelf,
- -PS 19" 1U SC SX / DX extendable,
- -PS 19" 2U SC DX pull-out,
- -3U voltage distribution panel.



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SZK 18U 19" dual	1138	610	610	801	503	533
SZK 30U 19" dual	1703	610	800	1336	503	723





SZK-30U 19" dual



"SZK" modular Cabinets

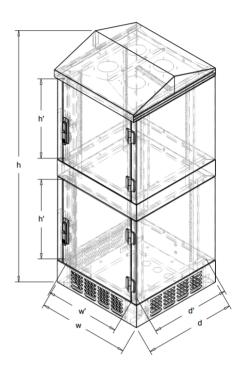
DESCRIPTION:

Cabinets for assembly on SK1 channel sump.

- -Made of sheet metal with Magnelis coating 1.5mm thick, plinth made of sheet metal with a Magnelis coating 2 mm thick, 150 mm high, ventilation holes from three sides, covered with a filter mat,
- -IP54 category and mechanical resistance IK10 ratings (confirmed by test report No. B/2020/34),
- -Upper and lower part connected with a 150mm high grommet,
- -Lockable with a 3-point bolt lock with a padlock bolt, swing handle,
- -2 pairs of 19" rack adjustable distance between the front and rear pair from 260mm do 420mm, distance between the front of the body and the first pair of racks from 55mm do 125mm,

Additional equipment:

- -Heating set with thermostat,
- -Heating set consisting of a CSL028 250W semiconductor blower controlled by an electronic hygrotheraphy ETF 012,
- -A set for ventilation of cabinets with a thermostat,
- -Floor plate with 3 holes Ø50 for self-breaking,
- -19" 1U 340 mm shelf,
- -PS 19" 1U SC SX / DX pull-out,
- -PS 19" 2U SC DX pull-out,
- -3U voltage distribution panel.



Symbol	Externa	al dimmension	ıs (mm)	Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SZK 24U 19" (12U+12U)	1535	610	610	533+533	503	570
SZK 30U 19" (18U+12U)	1805	610	610	533+803	503	570
SZK 36U 19" (18U+18U)	2075	610	610	803+803	503	570





SZK-36U (18U+18U)



"SZK" air conditioning Cabinets

DESCRIPTION:

Cabinets for assembly on SK1 channel sump.

- -Made of sheet metal with Magnelis coating 1.5mm thick, plinth made of sheet metal with a Magnelis coating 2 mm thick, 150 mm high, ventilation holes from three sides, covered with a filter mat,
- -Suitable and safe environment for your devices,
- -IP65 category and mechanical resistance IK10 (confirmed by test report No. B/2016/356),
- -The housing walls have a 30mm expansion gap (double walls),
- -A polyurethane gasket is poured on the door,
- -Lockable with a 3-point bolt lock with a padlock bolt, swing handle,
- -2 pairs of 19" rack adjustable distance between the front and rear pair from 290mm do 420mm, distance between the front of the body and the first pair of racks from 55mm do 125mm,
- -640W air conditioner (Voltage: 230 V),
- -3U voltage distribution panel,
- -A heating set consisting of a CSL028 250W semiconductor blower controlled by an electronic hygrotheraphy ETF 012,
- -Additional fans controlled by a thermostat mounted in the roof,
- -On request, cabinet can be made in other dimensions or made of Aluminum.

Additional equipment:

- -19" 1U 340 mm shelf,
- -PS 19" 1U SC SX / DX pull-out,
- -PS 19" 2U SC DX pull-out.

h	
h'	
w' w	d'

Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SZK 18U 19" z klimatyzatorem	1160	610	890	804	488	529
SZK 30U 19" z klimatyzatorem	1692	610	890	1336	488	529





SZK-18U z klimatyzatorem



SZK" Cabinet with thermal isolation

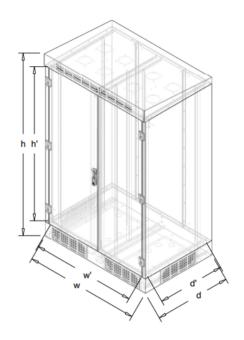
DESCRIPTION:

Cabinets for assembly on SK1 channel sump.

- -Made of sheet metal with Magnelis coating 1.5mm thick, plinth made of sheet metal with a Magnelis coating 2 mm thick, 150 mm high, ventilation holes from three sides, covered with a filter mat,
- -IP54 category and mechanical resistance IK10 ratings,
- -Lockable with a 3-point bolt lock with a padlock bolt, swing handle,
- -2 pairs of 19" rack handles as standard, mounted vertically along the entire depth of the cabinet,
- -Cabinet isolated with Aluthermo Quattro foil with a permeability of λ 0,040 W/m.

Additional equipment:

- -Heating set with thermostat,
- -Heating set consisting of a CSL028 250W semiconductor blower controlled by an electronic hygrotherm ETF 012,
- -A set for ventilation of cabinet with a thermostat,
- -Floor plate with 3 holes Ø50 for self-breaking,
- -19" 1U 340 mm shelf,
- -PS 19" 1U SC SX / DX pull-out,
- -PS 19" 2U SC DX pull-out,
- -3U voltage distribution panel.



Symbol	External dimmensions (mm) Internal dimmensions (mm					s (mm)
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SZK 36U 192/120/80*	1904	1200	814	1601	1091	726





SZK 36U 192/120/80



Outdoor Fiber Optic Distribution Frame - 15J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body made of sheet metal with Magnelis coating 1mm thick,
- -The pedestal made of sheet metal with a Magnelis coating 1.5mm thick, designed for mounting by digging into the ground to a depth of 60cm,
- -IP65 category and mechanical resistance IK10 ratings (confirmed by test report No. B / 2016/55)
- -In the upper part of the cabinet there is a separate space for supplying the source cable, together with the field for the 2J signal source and the tray of welds,
- -The upper part of the door has space for optical splitter and plastic holders for storage,
- -Commutation field with a capacity of 15J (15 holes for SC Sx adapters)
- -On the bottom part of the door, a dedicated splice tray is located,
- -Separate storage space for client cables at the bottom of the cabinet,
- -Door closed with 2 airtight cylinder locks (dedicated key code),
- -Poured polyurethane gasket on the door,
- -The ground part of the cabinet after mounting the pedestal is 65cm.



Symbol	External dimmensions (mm) Internal dimmensions (m					s (mm)
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
RSZ-125/18/6 15J	1249	186	65	543	167	57





RSZ-125/18/6 - 15J

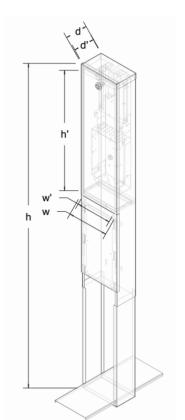


Outdoor Fiber Optic Distribution Frame - 16J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body made of sheet metal with Magnelis coating, thickness 1.0mm,
- -The pedestal made of sheet metal with a Magnelis coating, thickness 1.5mm, is designed for mounting by digging into the ground to a depth of 60cm,
- -Fully removable door locked with 1 hermetic cylinder lock (dedicated key code),
- -Poured polyurethane gasket on the door,
- -In the upper part of the cabinet two specially profiled inserts designed for mounting optical network elements such as adapters, splice trays,
- -Insert in the operator part with a capacity of 2J (2 holes for SC Simplex adapters) and a client with a capacity of 16J (16 holes for SC Simplex adapters),
- -Insert mounting bracket on the back wall also acts as cable / coil holder,
- -The upper part of the cabinet has IP65 category obtained by separating it from the lower part with a sealing insert, mounted after laying the optical fibers,
- -The ground part of the cabinet after mounting the pedestal is 86cm.



Symbol	Externa	al dimmensions (mm)		Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
RSZ-146/18/10 16J	1459	185	103	557	160	95







RSZ-146/18/10 - 16J

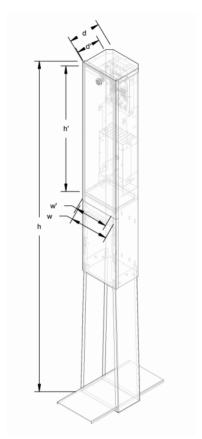


Outdoor Fiber Optic Distribution Frame - 24J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body made of sheet metal with Magnelis coating, thickness 1.5mm,
- -The pedestal made of sheet metal with a Magnelis coating, thickness 1.5mm, is designed for mounting by digging into the ground to a depth of 60cm,
- -In the upper part of the cabinet two specially profiled inserts designed for mounting optical network elements such as adapters, splice trays,
- -Insert in the operator part with a capacity of 2J (2 holes for SC Simplex adapters) and a client with a capacity of 16J (16 holes for SC Simplex adapters),
- -Inserts with the possibility of tilting and complete disassembly facilitate the work,
- -Insert mounting bracket on the back wall also acts as cable / coil holder,
- -Completely removable door locked with 1 hermetic cylinder lock (dedicated key code),
- -The upper part of the cabinet has IP65 category obtained by separating it from the lower part with a sealing insert, mounted after laying the optical fibers.
- -The ground part of the cabinet after mounting the pedestal is 100cm.



Symbol	External dimmensions (mm) Internal dimmensions (mm)					
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
RSZ-160/18/14 24J	1593	185	148	611	160	140





RSZ-160/18/14 - 24J

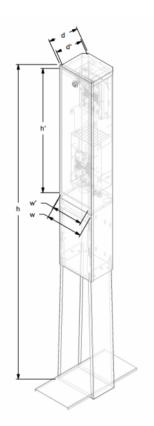


Outdoor Fiber Optic Distribution Frame - 36J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body and pedestal made of sheet metal with a Magnelis coating, 1.5mm thick, the pedestal designed for mounting by digging into the ground to a depth of 60cm,
- -In the upper part of the cabinet two specially profiled inserts designed for mounting optical network elements such as adapters, splice trays,
- -Insert in the operator part with a capacity of 6J (6 holes for SC Simplex adapters) and a client with a capacity of 36J (36 holes for SC Simplex adapters).
- -Inserts with the possibility of tilting and complete disassembly facilitate the work,
- -Insert mounting bracket on the back wall also acts as cable / coil holder,
- -Door closed with one hermetic cylinder lock (dedicated key code),
- -Completely disassembled door with poured polyurethane gasket and sealing plate at the bottom of the post ensure the upper part of the cabinet IP65 tightness
- -2 separate inputs blinded by airtight glands and 2 holes dedicated for the cable input, sealed with multigate grommet,
- -The ground part of the cabinet after mounting the pedestal is 100cm.



Symbol	Externa	External dimmensions (mm)			Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
RSZ-160/18/14 36J	1593	185	148	626	160	140	





RSZ-160-18-14 36J

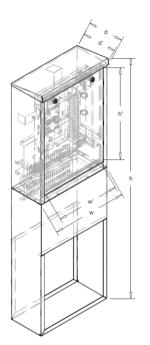


Outdoor Fiber Optic Distribution Frame - 72J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body made of sheet metal with Magnelis coating 1mm thick,
- -The pedestal made of sheet metal with a Magnelis coating 2mm thick, designed for mounting by digging into the ground to a depth of 60cm,
- -IP54 category and mechanical resistance IK10 ratings,
- -Door closed with 2 airtight cylinder locks (dedicated key code),
- -Equipped with a 72J switching field (36 holes for SC DX adapters),
- -Additional 3J bay (3 holes for SC SX adapters) for the signal source,
- -Separate cable spare in the upper part of the cabinet with mounted ø37mm 5mm long conduit,
- -Removable panel allows convenient welding at a distance of up to 5m from the cabinet,
- -Dedicated place for splitter in the upper part of the hinged panel,
- -The ground part of the cabinet after mounting the pedestal is 80cm.



Symbol	Externa	External dimmensions (mm)			Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
RSZ-140/44/20 72J	1399	444	213	534	374	180	







RSZ-140/44/20 - 72J

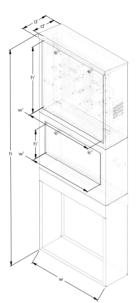


Outdoor Fiber Optic Distribution Frame - 144J

DESCRIPTION:

Outdoor cabinet designed for FTTh networks where a simple construction allows for any arrangement of optical fibers.

- -Body made of sheet metal with Magnelis coating, thickness 1.0mm,
- -The pedestal made of sheet metal with a Magnelis coating, thickness 2,0mm, designed for mounting by digging into the ground to a depth of 60cm,
- -The cabinet made in a modular structure,
- -Equipped with a 144J switching field (72 holes for SC Duplex adapters),
- -Separate space for a spare cable in the middle of the cabinet,
- -Each door closed with 2 cylinder locks with a plug (dedicated key code),
- -Hinged panel with the possibility of disassembly,
- -Dedicated place for splitter in the back of the cabinet,
- -The total height of the cabinet after mounting the pedestal is 110cm.



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
RSZ-170/60/20 144J	1701	602	213	520	532	180







RSZ-170/60/20 - 144J



Mast Cabinet 10"

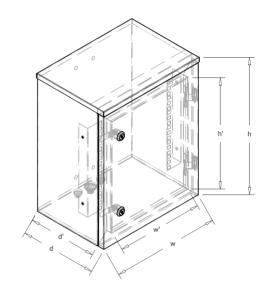
DESCRIPTION:

Hermetic cabinet designed for mounting on masts and poles with a polyurethane gasket.

- -Cabinet is a mechanical cover for telecommunication equipment,
- -Closed with two hermetic locks,
- -Made of sheet metal with Magnelis coating with a thickness of 1mm.
- -IP65 category and mechanical resistance IK10 ratings (confirmed by test report No. B / 2016/233),
- -Possibility of mounting with attached U-bolts on a ø50 mm mast,
- -Cable entry from below, the cabinet has 2 holes $\emptyset 16$ mm and 1 hole $\emptyset 24$ mm, sealed with hermetic glands,
- -Rear wall stiffened in the places of mounting screws.

Additional equipment:

- -10" 6U racks mounted vertically,
- -10" 1U shelf,
- -PS 10" 1U SC 16xDX.
- -A set of mast holders 330mm(2 pcs).



Symbol	Externa	External dimmensions (mm)			Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
SM-40/33/23	416	332	235	332	262	209	





SM-40/33/23



Mast Cabinet 19"

DESCRIPTION:

Hermetic cabinet designed for mounting on masts and poles with a polyurethane gasket.

- -Made of sheet metal with Magnelis coating with a thickness of 1mm.
- -Closed with two hermetic locks,
- -Protection IP65 and mechanical resistance IK10 ratings (confirmed by test report No. B / 2016/233),
- -Cabinet assembly (suggested due to its size) using 2 pole holders 558mm or wall mounting option,
- -Rear wall stiffened in the places of mounting screws.

SM-42/55/32 19" 5U: - Standard equipped with 2 holes \emptyset 16 mm and 1 hole \emptyset 24 mm, sealed with airtight glands,

- -U-bolts for mast ø50 mm included,
- -19" 5U rack mounts as additional equipment.

SM-50/55/41 19" 9U i SM-64/55/41 Rack 19" 12U: - Standard equipped with 6 holes \emptyset 24 mm located in the bottom wall, sealed with airtight glands,

- -U-bolts not included,
- -19" rack mounts in standard equipment.

Additional equipment:

- -19" 1U shelf,
- -19" fiber optic distribution box,
- -A set of pole holders 558mm (2 pcs).

	-
h' h	-
d' d' w' w	

Symbol	Externa	al dimmension	ıs (mm)	nm) Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SM-42/55/32 19" 5U	416	558	317	332	491	290
SM-50/55/41 19" 9U	501	558	403	421	491	379
SM-64/55/41 19" 12U	638	558	403	558	491	379





SM-64/55/41 19" 12U



Mast Cabinet 19" with ventilation

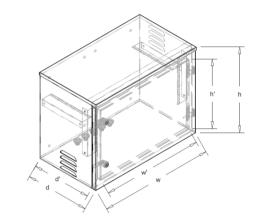
DESCRIPTION:

Hermetic cabinet designed for mounting on masts and poles with a polyurethane gasket. -Made of sheet metal with Magnelis coating with a thickness of 1,5mm.

- -Closed with two or three hermetic locks,
- -IP53 category and mechanical resistance IK10,
- -Cabinet has additional body reinforcement at the mounting holes,
- -Cable entry from below has 5 holes ø24 mm sealed with hermetic glands,
- -Cabinet assembly (suggested due to its size) using 2 pole holders or wall mounting option,
- -Ventilation holes with the possibility of installing ventilation kit,
- -19" vertical rack mounts in standard equipment,
- -Rear wall stiffened in the places of mounting screws.

Additional equipment:

- -19" 1U shelf,
- -19" fiber optic distribution box,
- -Heating kit,
- -Ventilation kit,
- -A set of pole holders (2 pcs).



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SM-42/55/32 5U Wt	416	560	313	332	490	289
SM-42/55/60 5U Wt	417	558	600	320	479	575
SM-64/55/60 12U Wt	639	559	600	542	480	567
SM-80/55/45 12U Wt	802	551	445	705	472	421





SM-42/55/32 Wt



"MZ" Cabinet

DESCRIPTION:

Cabinet made of sheet metal with a 1,0 mm thick Magnelis coating.

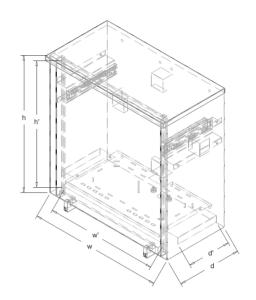
- -Locked by 2 padlocks T-13 Barrel with 8 mm diameter pins (basic version and L version) or hermetic locks (Z and ZL version),
- -Cabinet has from bottom 2 holes $\emptyset 16$ and 1 hole $\emptyset 24$ blinded with hermetic glands,
- -Can be wall mounted or mounted with 2 pole holders.

Additional equipment for basic version:

- -19" 5U rack mounts, fixed or pull-out,
- -PS 19" 1U 24xSC SX / DX,
- -Splice tray,
- -Cable storage organizer,
- -2 pole holders.

Cabinets in L and ZL versions are also equipped with:

- -Welded cable organizer (cable reserve) on the back panel,
- -Shelf with commutation field.



Compleal	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
MZ-62/61/30	627	613	322	560	514	266
MZ-62/61/30 Z	627	613	322	560	514	266
MZ-62/61/30 L	627	613	322	519	514	266
MZ-62/61/30 ZL	627	613	322	519	514	266





MZ-62/61/30 ZL



INDOOR CABINETS DEDICATED FOR FTTh NETWORK

Indoor MANTAR cabinets are a mechanical shield for telecommunications equipment, located among others in multi-apartment buildings.

They constitute a complete system of solutions dedicated to the construction of local copper or fiber optic FTTh networks.

As mechanical protection in MANTAR cabinets, we use a padlock system, cylinder locks with one or different key codes or high security safe locks with the approval of the Institute of Precision Mechanics.

Using the wide range of accessories, the cabinets can be easily adapted to individual needs. We offer the possibility of making cable holes and openings for fiber optic adapters according to customer preferences.

We design and manufacture custom-made cabinets on request. Small series can also be implemented.

Our solutions are certificated and patents protected.



M-52/52/16 Cabinet - 144J

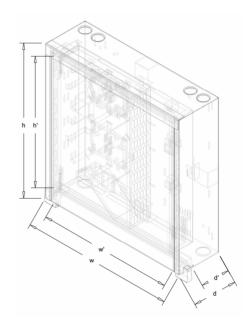
DESCRIPTION:

Cabinet designed for wall mounting in places particularly vulnerable to devastation and burglary.

- -It enables the termination of cables reaching the building from the telecommunications center, vertical cables and the assembly of optical splitters,
- -In the cabinet there is a fiber optic frame with a 144 J patchpanel (72 holes, S.C., DX), two screws for mounting fiber optic trays and holders for the organization of fiber optic fibers, it is tilting and unmountable,
- -Organizational handles for easy cable storage (at the back, under the distribution box),

The cabinet has 2 holes in the corners from above and one at the bottom $(\emptyset 38 / 29 - \text{plugged})$,

- -Closing with 2 padlocks T-13 Barrel with 8 mm diameter shank,
- -M 52/52/16 WZM version has safe lock (with IMP certificate, high security according to PN-ENV 1300:2014-03)



Symbol	External dimmensions (mm)			Internal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
M-52/52/16 ST 144J	522	520	157	455	461	102
M-52/52/16 WZM 144J	522	520	157	455	461	102







M 52/52/16 ST 144J



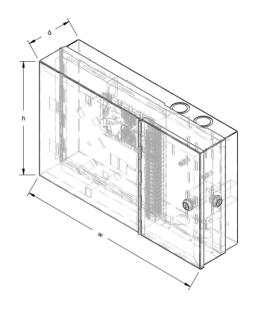
Fiber Optic Distribution Frame - 44J

DESCRIPTION:

Two-access cabinet (operator part separated from the client switching panel), equipped with a double door system for sharing the network.

- -Material: sheet steel 1mm thick,
- -Closing by 2 cylinder locks with one or two differents key code,-2 blind holes to knock out \emptyset 29 / 38 on the top and bottom of the cabinet,
- -As standard 22 holes for SC Duplex fiber optic adapters, screw for attaching a fiber optic remote control, cable organizers,
- -The possibility of mounting optical couplers (splitters) and trays for optical fiber splices,
- -Possibility to insert linear cables from above and below.

On request it is possible to make other cable holes and other holes for fiber optic adapters.



Symbol	external dimmensions (mm)			
Symbol	height	width	depth	
SRS-28/45/12 44J SC DX	281	455	116	





SRS 28/45/12 44J DX



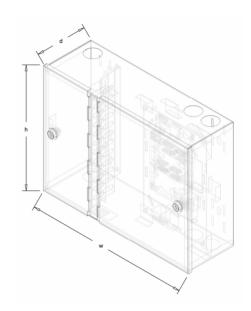
Fiber Optic Distribution Frame - 48J

DESCRIPTION:

Two-access cabinet (operator part separated from the client switching panel), equipped with a double door system for sharing the network.

- -Material: sheet steel 1mm thick,
- -Closing by 2 cylinder locks with one or two differents key code,
- -As a standard, the commutation field has 24 holes for SC fiber optic adapters,
- -Possibility to connect cables coming from the telecommunications center to the building, vertical and line cables,
- -Possibility of mounting optical couplers (splitters) and trays for optical fiber splices,
- -It has 3 blind holes to knock out \emptyset 29/38 on the top and bottom of the cabinet,
- -The cabinet has a cable organizer (cable stock) in the operator's part.

On request it is possible to make other cable holes and holes for fiber optic adapters.



Symbol	external dimmensions (mm)			
Symbol	height	width	depth	
SRS-30/40/13 48J	304	406	131	





SRS 30/40/13 48J DX



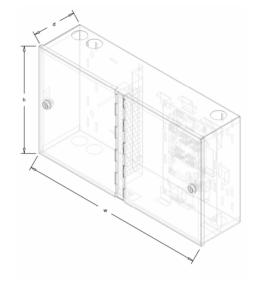
Fiber Optic Distribution Frame - 60J or 96J

DESCRIPTION:

Two-access cabinet (operator part separated from the client switching panel), equipped with a double door system for sharing the network.

- -Material: sheet steel 1mm thick,
- -Closing by 2 cylinder locks with one or two differents key code,
- -Standard commutation field has 48 holes for fiber optic adapters type SC DX (96J) or in the second version 60 holes for SC SX fiber optic adapters (60J),
- -Organizational handles for easy stacking of cable stocks,
- -Extended client part with the possibility of making welds on mounted travs.
- -It has 3 blind holes to knock out $\emptyset 29$ / 38 on the top and bottom of the cabinet.

On request it is possible to make other cable holes and holes for fiber optic adapters.



Symbol	external dimmensions (mm)			
	height	width	depth	
SRS-30/53/13 60J	304	529	131	
SRS-30/53/13 96J	304	529	131	





SRS 30/53/13 96J

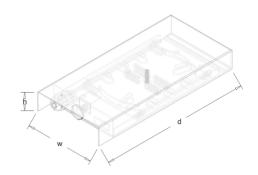


Wall mounted Fiber Optic Distribution Frame

DESCRIPTION:

Switchboard dedicated for mounting at the subscriber as an access point.

- -Designed for wall mounting as a finishing element of a fiber-optic network,
- -Closed with a knurled screw,
- -Dedicated space for the welding tray up to 12 splices,
- -Possibility to use one SC DX adapter,
- -The set has a PG-9 or PG-7 cable gland for 4-8mm cable,
- -Material: body sheet metal 1.50mm thick / cover 1.00mm thick.



Symbol	external dimmensions (mm)			
	height	width	depth	
PSN-A	32	111	241	





PSN - A



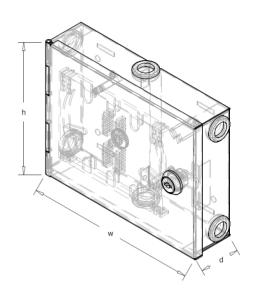


Wall mounted Fiber Optic Distribution Frame dedicated for easy access cables

DESCRIPTION:

Wall mounted cabinet designed for FTTx networks construction.

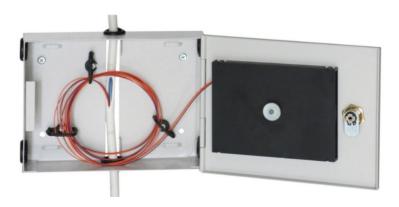
- -Designed for making branches from an easy-access cable in multi apartment buildings,
- -Lockable with 4-ratchet lock (dedicated key code),
- -Cabinet has 2 \emptyset 19 entries in the side walls and one on the top and bottom, dedicated to the entry of an easy access cable plugged with openings,
- -A dedicated place for cable storage,
- -Vertical hole on the back wall, for easy wall-mounting of the cabinet on the cable.
- -The standard equipment includes handles ordering the fiber supply,
- -Material: steel sheet 1 mm thick.



Symbol	external dimmensions (mm)			
Symbol	height	width	depth	
PSN-15/20/5	151	198	49	







PSN - 15/20/5



Wall mounted Fiber Optic Distribution Frame dedicated for easy access cables

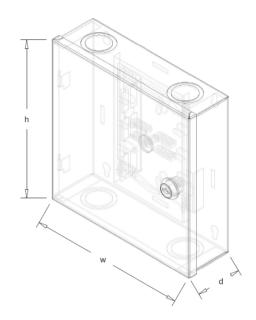
DESCRIPTION:

Wall mounted cabinet designed to build FTTx networks.

- -Possibility of cooperation with the vertical infrastructure of the building,
- -Equipped with a shield for fiber optic splices with a commutation field for 6 SC DX adapters,
- -In the rear part there are ribs enabling the assembly of clamps ordering fiber optic fibers,
- -Lockable with 4-ratchet lock (dedicated key code),
- -The possibility of introducing cable from the top and the bottom, the cabinet has 2 entries ($\emptyset 38$ / 29 plugged) on the bottom wall, and 2 entries from above,
- -Material: steel sheet 1mm thick,



- -Possibility to change the type and arrangement of cable entries,
- -Possibility of making an insert for a different type and number of adapters.



Symbol	external dimmensions (mm)			
Symbol	height	width	depth	
PSN 3 20/20/6	205	204	61	
PSN 4 29/29/10	295	294	102	





PSN - 3



Wall mounted Fiber Optic Distribution Frame 32J and 36J

DESCRIPTION:

Wall-mounted cabinet designed to build FTTx networks.

- -Equipped with a fiber optic splice tray with a commutation field for 16 SC SX adapters or 18 SC DX adapters,
- -The cabinet has 2 cable entries ($\emptyset 38$ / 29 plugged) on the bottom, and 2 holes on the top,
- -Dedicated space for splitter,
- -In the rear part there are ribs enabling the assembly of clamps ordering fiber optic fibers,
- -Closing by cylinder lock (dedicated key code),
- -Space for cable storage,
- -Material: steel sheet 1 mm thick.

h 			
	18/10/10	6)	
	w		d

Symbol	external dimmensions (mm)			
Symbol	height	width	depth	
PSN-30/30/10 16xSX	305	305	100	
PSN-30/30/10 18xDX	305	305	100	







PSN - 30/30/10 16xSX

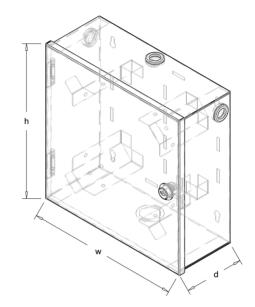


Cabinet for Easy Access Cable spare

DESCRIPTION:

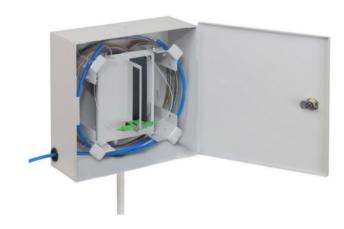
Wall-mounted cabinet designed to build FTTx networks.

- -Possibility of collecting fiber stock from the easy access cable, and cooperation with the vertical infrastructure of the building,
- -Lockable with 4-ratchet lock (dedicated key code),
- -Possibility to insert linear cables on four sides, the cabinet has cable entries with a diaphragm (\emptyset 19) on the bottom wall, 2 on the sides of the cabinet, and a blind hole (\emptyset 38 / 29) at the top of the cabinet,
- -In the rear part there are ribs enabling the assembly of clamps ordering fiber optic fibers,
- -Material: steel sheet 1 mm thick,
- -Possibility to order with a commutation field for 12 fiber optic adapters type SC Dx, and 2 trays for optical fiber splices,
- -On request we can made other cable entries.



Symbol	external dimmensions (mm)			
Symbol	height	width	depth	
PSN-25/25/10 Z	255	255	101	
PSN-25/25/10 PK	255	255	101	





PSN - 25/25/10 Z

PSN - 25/25/10 Z PK

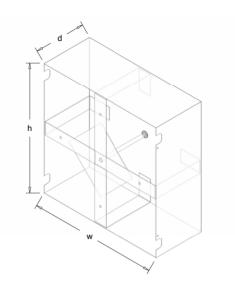


Cabinet for cable spare

DESCRIPTION:

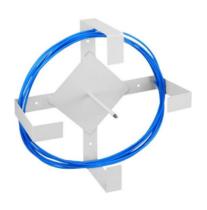
Metal frame, fixed directly to the wall.

- -Ensure the position of the cable supply while maintaining a safe bend radius.
- -Possibility to roll up a 50m fiber optic cable with a diameter of 15.5mm,
- -The housing is mounted to the frame by means of a screw from the front of the cabinet,
- -Frame made of sheet metal 2mm, casing made of sheet metal 1mm,
- -On request, it is possible to make cabinets in other dimensions.



Symbol	external dimmensions (mm)					
Зушьог	height	width	depth			
ZK-50/50/20	496	496	200			







Szafka na Zapas Kabla 50/50/20



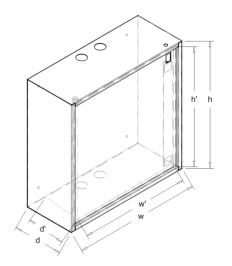
"GM" Cabinet

DESCRIPTION:

- -Designed for wall mounting in places particularly exposed to devastation and burglary,
- -Possibility of cable entry from the top and bottom, the cabinet has 2 holes (\emptyset 38 / 29- plugged) from above and below,
- -Closing by padlock with a stem in standard equipment.
- -Made of steel sheet: body 1.5mm, door 2mm thick.

Additional equipment:

- -Possibility order with other dimensions, any number and arrangement blind holes (\emptyset 29, \emptyset 38, \emptyset 48), or rectangular holes,
- -Possibility of installing 19" 3U racks in GM-50/50/20.



Symbol	Externa	al dimmension	ıs (mm)	Interna	l dimmension	s (mm)
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
GM-40/40/18	401	400	181	347	333	147
GM-50/50/20	501	500	201	447	432	175





GM-50/20/20

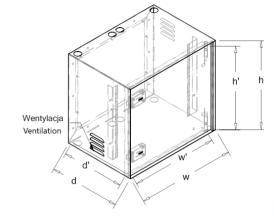


Armored Cabinet

DESCRIPTION:

Designed for wall mounting in places particularly exposed to devastation and burglary,

- -Material: steel sheet thickness 2 mm.,
- -Closing in SP-19" 6U by one safe lock or in SP-19" 9U and SP-19" 15U: 2 safe locks (with IMP certificate, high security according to PN-ENV 1300:2014-03),
- -Side wall embossing for gravity ventilation,
- -Cabinet allows installation of devices in 19" rack mounts,
- -Possibility of cable entries from above and below, e.g. SP-19" 9U has 4 cables entries (Ø38 plugged),
- -Usable distance from door to 110mm rack holders,
- -Possibility order with other dimensions, any number and arrangement blind holes (ø29, ø38, ø48), or rectangular holes.



Additional equipment:

- -3U voltage distribution panel,
- -PS 19" 1U SC SX/DX,
- -19" 1U shelf depth 260mm or 19" 1U shelf depth 340mm
- -PSN 1

Symbol	Externa	al dimmensior	ns (mm)	Interna	al dimmension	s (mm)
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
SP 19" 6U gł.600	350	550	600	316	485	585
SP 19" 9U gł.400	500	550	400	466	485	385
SP 19" 9U gł.600	500	550	600	466	485	585
SP 19" 15U gł.400	720	550	400	686	485	385
SP 19" 15U gł.650	720	550	650	686	485	635





SP-19" 9U



"M" Reinforced Cabinet (closing with safe lock)

DESCRIPTION:

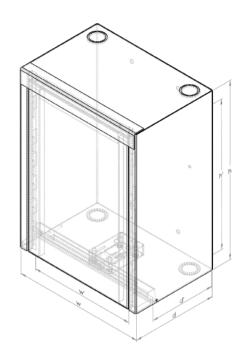
Cabinet designed for wall mounting in places particularly vulnerable to devastation and burglary.

- -Material: steel sheet thickness 1.5 mm.,
- -Special door construction reinforced with steel sheet angles. 2mm.,
- -Closing by safe lock (with IMP certificate, high security according to PN-ENV 1300:2014-03).
- -Booking a separate key code for each client, on differently different codes.
- -Cabinet has 2 holes from above and from below (Ø38 / 29 plugged),

Z version of the cabinet has the cable stock organizer on the back panel and the L version has cable organizer and PS 1 board.

Additional equipment:

- -19" rack mounts fixed or retractable
- -Mounting plate made of magnelis / OSB sheet,
- -PS 9" 1U SC Simplex / Duplex,
- -Metal cable organizer (cable supply) on the back panel, or cable handle $\mathsf{M1}$,
- -PSN 1.



Symbol	Externa	al dimmensior	ns (mm)	Interna	ıl dimmension	ıs (mm)
	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
M-40/30/20 WZM	402	300	202	355	241	148
M-50/50/20 WZM	502	500	202	435	441	148
M-58/58/30 WZM	582	580	302	515	521	248
M-70/58/30 WZM	702	580	302	635	521	248
M-70/58/30 WZM L	702	580	302	591	521	248
M-70/58/30 WZM Z	702	580	302	635	521	248



M 40/30/20 WZM





"M" Reinforced Cabinet (closing with padlocks)

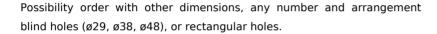
DESCRIPTION:

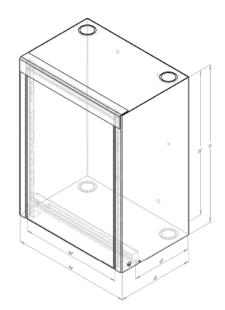
Cabinet designed for wall mounting in places particularly vulnerable to devastation and burglary.

- -Material: steel sheet thickness 1.5 mm.,
- -The body is reinforced with steel sheet angles. 2mm.,
- -Closing by 2 padlocks T-13 Barrel with a diameter of 8mm.,
- -Possibility of cable entry from the top and bottom, the cabinet has 2 holes from above and from below (Ø38 / 29 blinded).

Additional equipment:

- -19" rack mounts fixed or retractable,
- -Mounting plate made of Magnelis sheet / OSB sheet,
- -PS 9" 1U SC Simplex / Duplex,
- -Metal cable organizer (cable supply) on the back panel, or cable handle ${\sf M1}$,
- -Splice tray.





Symbol	Externa	al dimmensior	ns (mm)	Interna	dimmensions (mm) width (w') depth (d')		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
M-40/30/20 ST	402	300	202	355	241	148	
M-40/40/14 ST	402	400	142	335	341	88	
M-50/50/20 ST	502	500	202	435	441	148	
M-50/50/30 ST	502	500	302	435	441	248	
M-58/58/30 ST	582	580	302	515	521	248	







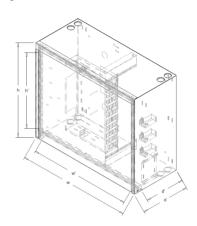


"M" Reinforced Cabinet - 128J (closing with padlocks)

DESCRIPTION:

Cabinet designed for wall mounting in places particularly vulnerable to devastation and burglary.

- -Material: steel sheet thickness 1.5 mm,
- -Closing by 2 padlocks T-13 Barrel with a diameter of 8mm,
- -Equipped with a fiber optic switch 19" 3U mounted on rack mountings with a Direct access to fibre optic cassettes,
- -Fiber optic distribution frame with a commutation field for 64 SC Duplex and 6 SC Simplex connectors,
- -A separate place for mounting an optical splitter.



Symbol	Externa	al dimmension	s (mm)	Interna	width (w') depth (d')		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
M-58/70/30 ST	582	700	302	514	628	249	





M 58/70/30 ST



"TPR" Cabinet closing by padlock

DESCRIPTION:

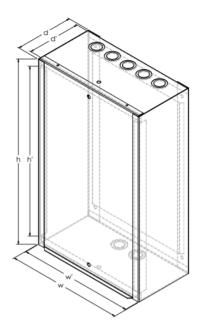
TPR-30/30/12S:

- -Material: sheet steel 1mm thick,
- -Closing by 1 or 2 padlocks (top and bottom),
- -Welded sheet metal with dimensions: 185mm high, 280mm wide,
- -2 entry cables (Ø38- blinded), one from the top and one from the bottom,

TPR-54/34/17S:

- -Material: sheet steel 1,5mm thick,
- -Closing by 1 or 2 padlocks (top and bottom),
- -Welded sheet metal with dimensions: height 430mm, width 320mm,
- -5 holes from above and 2 holes from below for cable entry (\emptyset 38-plugged).

Possibility order with other dimensions, any number and arrangement blind holes (ø29, ø38, ø48), or rectangular holes.



Symbol	Externa	al dimmensior	ns (mm)	Interna	al dimmension	ıs (mm)
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')
TPR-30/30/12 S	321	302	130	299	300	109
TPR-54/34/17 S	541	339	179	537	336	157



TPR-30/30/12 S

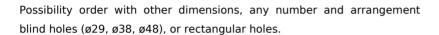


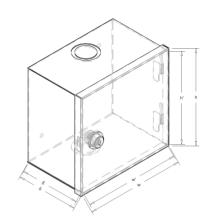


"TPR" Cabinet with 1-point locking

DESCRIPTION:

- -Closing by 4-ratchet cylinder lock
- -Material: steel sheet thickness 1mm,
- -Possibility to completely disassemble the door.
- -TPR- 15/15/10 has one Ø38 / 28 hole each, blinded from above and below for cable entry, full back,
- -TPR-15/23/10 sides with $\emptyset 38$ / 28 end caps or a rectangular hole through the entire length of the cabinet with a width of 20mm (L version), full back.





Symbol	Externa	al dimmension	ıs (mm)	Interna	al dimmension	dimmensions (mm) width (w') depth (d') 153 99 229 99	
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
TPR-15/15/10	154	160	101	148	153	99	
TPR-15/23/10 L	154	237	101	148	229	99	
TPR-15/23/10 P	154	237	101	148	229	99	



TPR-15/15/10



TPR-15/23/10 P



TPR-15/23/10 L



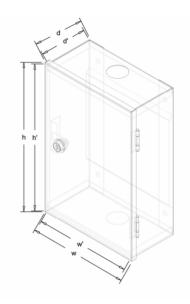


"TPR" Cabinet with 1-point locking

DESCRIPTION:

- -Closing by 4-ratchet cylinder lock,
- -Rectangular opening through the entire length of the cabinet with a width of 20mm (L version),
- -Material: steel sheet thickness 1mm.

Possibility order with other dimensions, any number and arrangement blind holes (ø29, ø38, ø48), or rectangular holes.



Symbol	Externa	al dimmension	ıs (mm)	Interna	rnal dimmensions (mm)		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
TPR-30/20/10 L	305	205	102	298	196	83	
TPR-30/20/10 P	305	205	102	298	196	83	
TPR-30/30/12 L	303	303	120	274	293	109	
TPR-30/30/12 P	306	307	123	298	298	112	





TPR-30/20/10 L



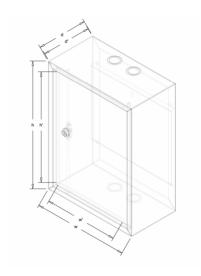
"TPR" Cabinet with 2-points locking

DESCRIPTION:

- -Closing by 4-ratchet cylinder lock with 2-point locking.
- -With 2 holes (Ø38 / 29-plugged) from above and below for cable entry.
- -Material: steel sheet thickness 1mm.

On request we can:

- -made it in other dimensions,
- -do any number and arrangement of blinded holes (\emptyset 29, \emptyset 38, \emptyset 48) or rectangular holes.



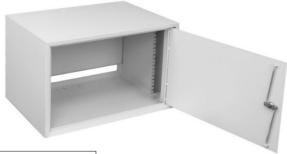
Symbol	Externa	al dimmension	ns (mm)	Internal dimmensions (mm)			
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')	
TPR-35/55/40 G	350	550	400	297	497	374	
TPR-40/30/16 G	400	300	160	347	247	135	
TPR-40/40/14 G	400	400	140	347	348	116	
TPR-50/50/14 G	500	500	140	447	447	109	
TPR-60/55/40 G	600	550	400	547	497	374	





TPR-40/30/16





TPR-35/55/40 19" 6U



Residential "TPR" Cabinet

DESCRIPTION:

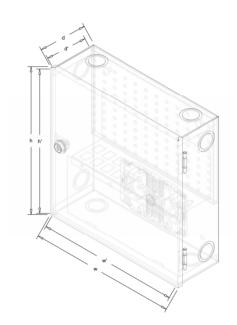
Flat distibution enclousure designed for flush / surface mounting in each apartment of a multi-family building in accordance with the applicable regulations under the regulation of the Polish Minister of Transport, Construction and Maritime Economy of November 6, 2012.

The internal panel comes standard with:

- -10 holes for Keystone connectors,
- -6 holes for F connectors,
- -2 holes for SC Duplex fiber optic adapters.
- -Dedicated space for the weld tray and cabling reserve (perforated sheet allows organization)
- -Has 2 holes $\emptyset 29$ / 38 to break out on the top, bottom and side walls of the cabinet

-Closing: 4-ratchet cylinder lock.

-Material: 1 mm sheet.



Symbol	Externa	al dimmension	ıs (mm)	Interna	al dimmension	dimmensions (mm) width (w') depth (d')		
Symbol	height (h)	width (w)	depth (d)	height (h')	width (w')	depth (d')		
TPR-30/30/10 Nt	305	305	101	298	295	88		
TPR-30/30/10 Pt	320	320	105	294	294	94		





TPR-30/30/10 Pt





TPR-30/30/10 Nt





Rack Fiber-optic Distribution boxes

MANTAR fiber optic distribution boxes are created in cooperation and with the needs of persons performing all installation works in mind. The distribution boxes are intended for RACK cabinets with 10" and 19" width.

Using new technologies and innovative design solutions, distribution boxes offer convenience of work and are tailored to customer needs.

Our offer includes switches in heights from 1U up to 4U, which can hold as much as 192J.

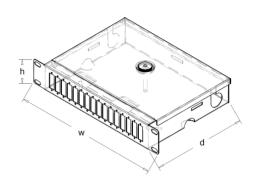
Our innovative solutions are protected by utility models and patents.



Fixed Fiber Optic Distribution Frame

DESCRIPTION:

- -Designed for mounting in 19" and 10" cabinets,
- -Made of 1mm thick steel sheet,
- -The 10" switch has a commutation field for 16 SC DX adapters,
- -It has ribs that allow the installation of clamps ordering fiber optic fibers,
- -The distribution board has the possibility to insert cables from the rear, has 4 holes (2 open and 2 closed) for PG 13.5 included in the set,
- -Possibility to mount fiber-optic splice trays.
- -19" switch boards are available in two versions: SC SX and SC DX (for 12 or 24 holes SC adapters)



Symbol	external dimmensions (mm)					
Symbol	height	width	depth			
PS 10" 1U 16xDX st	10	10"	166			
PS 19" 1U 12xSX st	1U	19"	212			
PS 19" 1U 12xDX st	10	19"	212			
PS 19" 1U 24xSX st	1U	19"	212			
PS 19" 1U 24xDX st	1U	19"	212			
PS 19" 2U 48xDX st	2U	19"	212			





PS 10" 1U 16xDX st





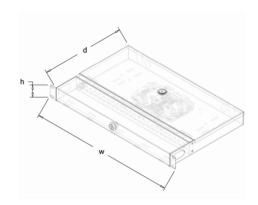
PS 19" 24xDX st



Locked Fiber Optic Distribution Frame

DESCRIPTION:

- -Designed for mounting in 19" cabinets,
- -4-ratchet lock individual investor key,
- -19" switchgear made in two versions: SC Sx and SC DX (option for 12 J or $24 \, \mathrm{J}$),
- -It has ribs that allow the installation of clamps ordering fiber optic fibers,
- -Possibility to mount fiber-optic splice trays,
- -The switchgear has the possibility to insert cables from the rear, the switchboard has 4 holes (2 open and 2 closed) for PG 13.5 chokes, included in the set,
- -Made of 1 mm thick steel sheet.



Symbol	external dimmensions (mm)		
	height	width	depth
PS 19" 1U 24xSX nz*	43	482	289





PS 19" 1U 24xSX nz



1U, 2U, 4U Modular Fiber Optic Distribution Frame

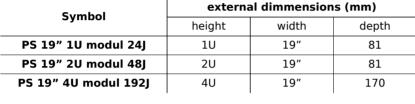
DESCRIPTION:

19" modular switchboard with 1,2,4U height for mounting in cabinets and teletechnical stands.

-The complete switchboard contains between 2 and 16 cartridges (modules) with a capacity of 12xSC Simplex, in total 24-192J. Modules 12J SX available as an accessory could be replacement for the splice tray,

- -Made of 1 mm thick steel sheet,
- -Possible to equip the switchboard with an additional shelf which helps organize cables.

h an	additional shelf	which helps	W
cterna	al dimmension	s (mm)	
nt	width	depth	
	19"	81	
	10"	01	







PS 19" 1U modul 24J

PS 19" 2U modul 48J



PS 19" 4U modul 192J

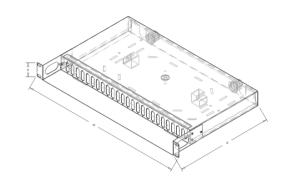


Fiber Optic Distribution Frame (without guides) 48J

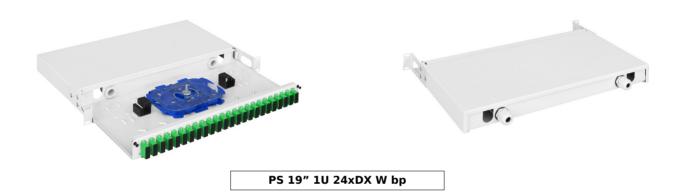
DESCRIPTION:

Designed for mounting in 19" cabinets.

- -Possibility to mount fiber-optic splice trays,
- -Possibility of introducing linear cables from the rear, the distributor has 4 holes (2 open and 2 closed) for PG 13.5 chokes, included in the kit,
- -Made of 1 mm thick steel sheet,
- -Equipped with a removable drawer for convenient access to the interior,
- -It has self-adhesive handles and ribs enabling the assembly of cable ties for easy organization of cables.



Symbol	external dimmensions (mm)		
	height	width	depth
PS 19" 1U 24xDX W bp	1U	19"	290







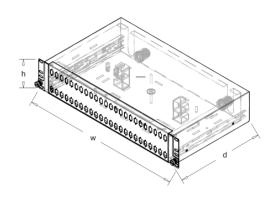
Fiber Optic Distribution Frame (with guides)

DESCRIPTION:

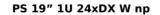
Designed for mounting in 19" cabinets.

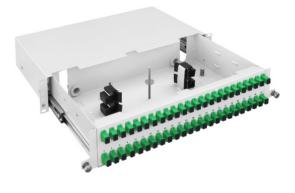
- -Equipped with a removable drawer for convenient access to the interior,
- -It has self-adhesive handles and ribs enabling the assembly of cable ties for easy organization of cables,
- -Possibility to mount fiber-optic splice trays,
- -Possibility of introducing linear cables from the rear, the distributor has 4 holes (2 open and 2 closed) for PG 13.5 chokes, included in the kit,
- -Made of 1mm thick steel sheet.

Symbol	external dimmensions (mm)		
	height	width	depth
PS 19" 1U 24xSX W np	10	19"	264
PS 19" 1U 24xDX W np	1U	19"	264
PS 19" 2U 48xSX W np	2U	19"	264
PS 19" 2U 48xDX W np	2U	19"	264
PS 19" 4U 144xSX W np	4U	19"	266









PS 19" 2U 48xSX W np



ACCESSORIES

A wide range of MANTAR accessories was created in cooperation with the needs of people carrying out all installation works in mind. They comprehensively complement the offer of external and internal cabinets dedicated to the construction and modernization of IT networks. Using new technologies and innovative design solutions, we offer convenience of work and high quality at competitive prices.

The MANTAR accessories range includes a wide selection of mounting brackets for external mast cabinets, cable holders, shelves and rack holders, voltage distribution panels, easy access cables, pigtails, ordering panels, fiber optic adapters, splice trays.



Pole Holder Set

DESCRIPTION:

A set of fixing brackets for external mast claddings.

- -Made of 2mm thick stainless steel,
- -Designed for mounting external cabinets on poles with a diameter of 90-200mm.

Additional equipment in stainless steel belt and buckles is not included in the offered holders.

Symbol	external dimmensions (mm)		
	height	width	depth
Uchwyt do słupa 330mm	0	330	0
Uchwyt do słupa 558mm	0	558	0



Uchwyt do słupa



Przykład mocowania uchytu do szafy SM 42/55/32



Ordering Panel 1U

DESCRIPTION:

- -Suitable for mounting in 19" cabinets,
- -Provides easy and safe routing of patchcords,
- -Made by steel sheet thickness 1 mm.

Symbol	external dimmensions (mm)		
	height	width	depth
Panel porządkujący 19"1U	1U	19"	1



Panel Porządkujący 1U







Uchwyty kablowe M1





Uchwyty kablowe

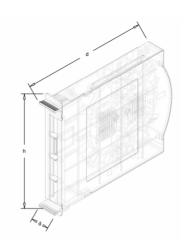


12J SX Modul

DESCRIPTION:

- -Designed for placing and securing casings for optical fiber splices 24 pieces
- -Switching field for 12 SC SX adapters,
- -Module equipped with holes for mounting tubes and splitter on cable ties,
- -Protection of free places for adapters is provided by blanking plates,
- -Fastening in the switchboard with latches,
- -Universal splices tray made of plastic (ABS),
- -Replacement for the splice tray.

Symbol	external dimmensions (mm)		
	height	width	depth
Kasetka (moduł) 12 x SC	155	183	25









Moduł 12J



PS 19" 4U z modułami w szafie M-58/58/30

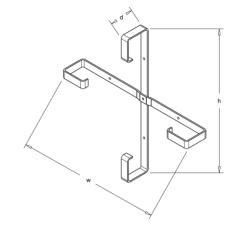


Rack of spare cable socket

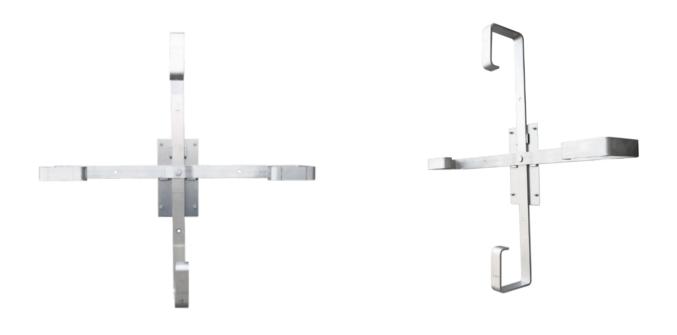
DESCRIPTION:

Designed for outdoor installation.

- -Made of 30x5mm aluminum flat bar,
- -Equipped with a fiber optic cable holder.



Symbol	external dimmensions (mm)		
	height	width	depth
ZK-60/60/10 aluminium	600	600	100
ZK-80/80/10 aluminium*	800	800	100



Stelaż zapasu kabla 60/60



4-ports Junction box

DESCRIPTION:

Dedicated to distributing easy access cable on individual building floors.

- -The cover allows you to secure the window (up to a maximum of 50 mm) cut in the easy access cable,
- -Designed for cables with diameters from Ø8,5mm 12J to 13,5mm 48J,
- Material: ABS plastic, it is possible to comply with the UL94-V0 standard,
- -Color: white.

Symbol	externa	al dimmension	s (mm)
	height	width	depth
Puszka odgałęźna 4P	67	77	29



Puszka odgałęźna 4P

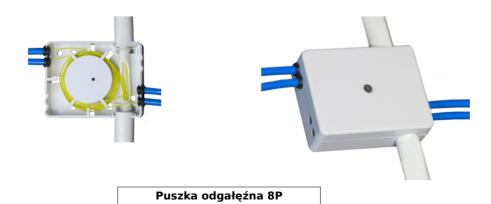
8-ports Junction box

DESCRIPTION:

Dedicated to distributing easy access cable on individual building floors.

- -Enables rigid attachment of the cover to an easy-access \emptyset 18 cable,
- -The cover allows you to secure the window (up to a maximum of 50 mm) cut in the cable for easy access,
- -Material: ABS plastic, it is possible to comply with the UL94-V0 standard,
- -Color: white.

Symbol	external dimmensions (mm)		
	height	width	depth
Puszka odgałęźna 8P	90,6	70,6	30





Subscriber's Box

DESCRIPTION:

Optical fiber termination element intended for wall mounting.

- -Snap-on cover,
- -Has space for fiber storage and the possibility of protecting the mechanical weld,
- -Possibility to use 2 SC SX adapters,
- -Material: ABS plastic, it is possible to comply with the UL94-V0 standard,
- -Color: white.

Symbol	external dimmensions (mm)		
	height	width	depth
Puszka abonencka 1P	85	85	24





Puszka Abonencka

Subscriber's Metal Cover

DESCRIPTION:

The metal cover of the subscriber's box serves to protect the link in places susceptible to damage, e.g. by a vacuum cleaner, children or pets.

- -Material: steel sheet 1mm thick,
- -White color.

Symbol	external dimmensions (mm)		
	height	width	depth
Osłona metalowa puszki abonenckiej*	117	89	18





Osłona metalowa



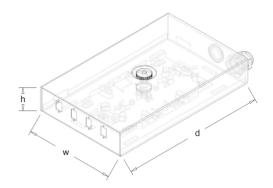
Mini Fiber-Optic distribution board 8J and 12J

DESCRIPTION:

Designed for mounting inside the cabinet.

- -Possibility of installing trays for fiber optic splices,
- -Material: steel sheet thickness 1mm,
- -Possibility order with different type and spacing of the holes for adapters.

Symbol	external dimmensions (mm)		
	height	width	depth
PSN 1 4xSX	37	137	220
PSN 1 4xDX	32	111	247
PSN 1 6xSX	32	111	247
PSN 2 6xDX	33	142	279









PSN 1 4xDX







PSN 2 6xDX



Voltage Distribution Panel 19\" 3U

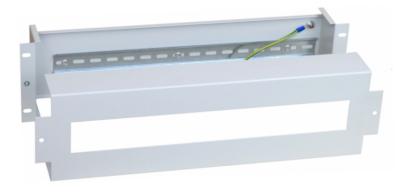
DESCRIPTION:

- -Designed for mounting on 19" 3U Rack mounts,
- -Can be mounted on the DIN TH 35/7 mounting rail,
- -Made of 1 mm thick steel sheet.

Symbol	external dimmensions (mm)		
	height	width	depth
Panel dystrybucji napięć 19" 3U	3U	19"	133







Panel dystrybucji napieć 19"



10" and 19" shelves

DESCRIPTION:

- -Suitable for mounting in 10 "and 19" cabinets,
- -They have holes for fixing devices with cable ties,
- -Material: 10" shelf steel sheet 1,0mm thick, 19" shelf steel sheet 1,5mm thick.

Symbol	external dimmensions (mm)		
	height	width	depth
Półka Rack 10" 1U gł. 150	1U	10"	150
Półka Rack 19" 1U gł. 260*	1U	19"	260
Półka Rack 19" 1U gł. 340*	1U	19"	340



Półka 19" 1U 260mm



Półka 19" 1U 340mm do szaf serii SZK

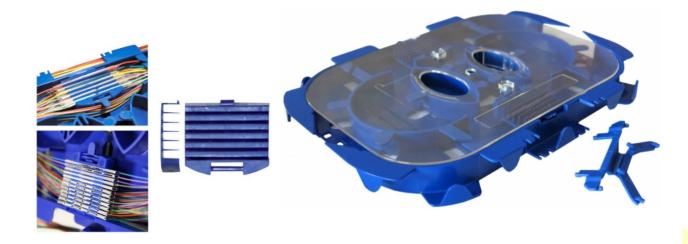


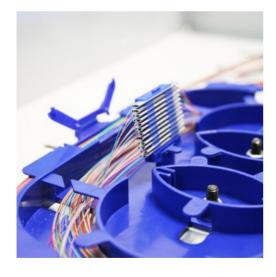
Splices Tray (for 24 splices)

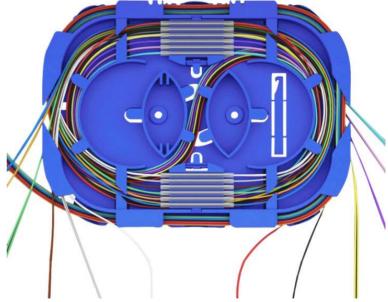
DESCRIPTION:

- -Designed for placing and securing casings for optical fiber splices 24 pieces,
- -It is used to attach the welding shield and secure the fiber optic supply,
- -It is used for attaching the splices cover and securing the fiber optic reserve,
- -The splice cassette consists of a base on which there are movable combs for assembly of weld seams and a cover protecting the fibers from damage,
- -The cassettes can be cascaded one on top of the other using a detachable handle.

Symbol	external dimmensions (mm)		
	height	width	depth
Tacka spawów światłowodowych	168	124	13









alphabetical list cabinets names

GM-40/40/18	50
GM-50/50/20	50
Kasetka (moduł) 12 x SC	70
Kolumna Alarmowa	17
M-40/30/20 ST	53
M-40/30/20 WZM	52
M-40/40/14 ST	53
M-50/50/20 ST	53
M-50/50/20 WZM	52
M-50/50/30 ST	53
M-52/52/16 ST 144	40
M-52/52/16 WZM 144	40
M-58/58/30 ST	53
M-58/58/30 WZM	52
M-58/70/30 ST	54
M-70/58/30 WZM	
M-70/58/30 WZM L	
M-70/58/30 WZM Z	52
MZ-62/61/30	
MZ-62/61/30 L	
MZ-62/61/30 Z	
MZ-62/61/30 ZL	
Osłona metalowa puszki abonenckiej	
PS 10" 1U 16xDX st	
PS 19" 1U 12xDX st	
PS 19" 1U 12xSX st	
PS 19" 1U 24xDX W bp	
PS 19" 1U 24xDX W np	
PS 19" 1U 24xDX st	
PS 19" 1U 24xSX W np	
PS 19" 1U 24xSX nz	
PS 19" 1U 24xSX st	
PS 19" 1U modul 24]	64
PS 19" 2U 48xDX W np	
PS 19" 2U 48xDX st	
PS 19" 2U 48xSX W np	
PS 19" 2U modul 48]	
PS 19" 4U 144xSX W np	
PS 19" 4U modul 192J	
PSN 1 4xDX	
PSN 1 4xSX	
PSN 1 6xSX	
PSN 2 6xDX	
PSN 3 20/20/6	
PSN 4 29/29/10	
PSN-15/20/5	
PSN-25/25/10 PK	
PSN-25/25/10 Z	



alphabetical list cabinets names

PSN-30/30/10 16xSX	47
PSN-30/30/10 18xDX	47
PSN-A	44
PW 1U 19" 4 wentylatory	22
Panel dystrybucji napięć 19" 3U	75
Panel porządkujący 19"1U	69
Pulpit operatorski	18
Pulpit operatorski wiszący	19
Puszka abonencka 1P	73
Puszka odgałęźna 4P	72
Puszka odgałęźna 8P	72
Półka Rack 10" 1U gł. 150	76
Półka Rack 19" 1U gł. 260	76
Półka Rack 19" 1U gł. 340	76
RSZ-125/18/6 15J	29
RSZ-140/44/20 72J	33
RSZ-146/18/10 16J	30
RSZ-160/18/14 24J	31
RSZ-160/18/14 36J	32
RSZ-170/60/20 144J	34
RSZ-79/18/6 12J	14
SM-100/60/60 18U	15
SM-40/33/23	35
SM-42/55/32 19" 5U	36
SM-42/55/32 5U Wt	37
SM-42/55/60 5U Wt	37
SM-50/55/41 19" 9U	36
SM-60/55/50 10U	16
SM-64/55/41 19" 12U	36
SM-64/55/60 12U Wt	37
SM-80/55/45 12U Wt	37
SP 19" 15U gł.400	51
SP 19" 15U gł.650	51
SP 19" 6U gł.600	51
SP 19" 9U gł.400	51
SP 19" 9U gł.600	51
SRS-28/45/12 44J SC DX	41
SRS-30/40/13 48J	42
SRS-30/53/13 60J	43
SRS-30/53/13 96J	43
SWS 42U 19" 140x35	12
SZK 12U 19"	24
SZK 18U 19"	24
SZK 18U 19" (12U+6U)	13
SZK 18U 19" dual	25
SZK 18U 19" z klimatyzatorem	27
SZK 24U 19"	24
SZK 24U 19" (12U+12U)	26



alphabetical list cabinets names

SZK 30U 19"	24
SZK 30U 19" (18U+12U)	26
SZK 30U 19" dual	25
SZK 30U 19" z klimatyzatorem	27
SZK 36U 192/120/80	28
SZK 36U 19" (18U+18U)	26
SZK 42U 19"	24
Skrzynka na listy	21
TPR-15/15/10	56
TPR-15/23/10 L	56
TPR-15/23/10 P	56
TPR-30/20/10 L	57
TPR-30/20/10 P	57
TPR-30/30/10 Nt	59
TPR-30/30/10 Pt	59
TPR-30/30/12 L	57
TPR-30/30/12 P	57
TPR-30/30/12 S	55
TPR-35/55/40 G	58
TPR-40/30/16 G	58
TPR-40/40/14 G	58
TPR-40/60/60	20
TPR-50/50/14 G	58
TPR-54/34/17 S	55
TPR-60/55/40 G	58
Tacka spawów światłowodowych	77
Uchwyt do słupa 330mm	68
Uchwyt do słupa 558mm	68
ZK-50/50/20	49
ZK-60/60/10 aluminium	71
ZK-80/80/10 aluminium.	71







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